

Operator Preventive Maintenance Checks and Services

6525-01-422-6122

X-Ray Processor with Daylight Loader, Model MM190

[B-Before Operation, D-During Operation, A-After Operation, W-Weekly, M-Monthly, AN-Annually]

ITEM NO	INTERVAL	ITEM TO BE INSPECTED AND PROCEDURE	IS NOT MISSION CAPABLE IF:
1	B	<p>Processor System</p> <p>a. Conduct an inventory to ensure that the items listed on the Equipment Parts and Accessories list are on hand.</p> <p>b. Inspect components for damage, discoloration, or excessively worn components.</p>	<p>Missing components or accessories prevent the operation of the processor.</p> <p>Unserviceable components prevent the use of the processor.</p>
2	B	<p>Installation of the Processor</p> <p>a. Install the processor as directed by the manufacturer's literature.</p> <p>NOTE: Do not unpack the processor until a thorough inspection of the shipping container for evidence of damage has been conducted.</p> <p>b. Uncrate processor, daylight loader assembly, brackets, hardware, and replenisher supply tanks as directed by the manufacturer's literature.</p> <p>c. Position processor case on a flat, level surface as directed by the manufacturer's literature.</p> <p>(1) Position and level the processor on Packing Case Number 1 as directed by the manufacturer's literature.</p> <p>(2) Inspect all components at this time for visible shipping damage.</p> <p>(3) Inspect tank and racks for loose parts.</p> <p>d. Conduct the processor assembly as directed by the manufacturer's literature.</p> <p>e. Conduct the daylight loader assembly as directed by the manufacturer's literature.</p> <p>f. Conduct replenishment set up as directed by the manufacturer's literature.</p> <p>NOTE: The processor may be set up to operate its replenishment system in either "Replenish" or "Batch" mode.</p> <p>g. Connect wash water system and drain.</p> <p>h. Conduct processor inspection before adding chemicals.</p>	<p>The processor not being level prevents operation.</p> <p>Light leaks prevent operation of the processor.</p>

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3	B	<p>CAUTION: DO NOT POUR CHEMICALS INTO THE PROCESSOR TANKS UNTIL READING “Test Checkout With Water In Tank” IN THE MANUFACTURER’S LITERATURE.</p> <p>i. Conduct the “Test Checkout With Water in Tank” procedure.</p> <p>j. Conduct the “Transporting Film” procedure as directed by the manufacturer's literature.</p> <p>(1) Check film feed switch operation.</p> <p>(2) Feed film in straight to check racks for drift or skewing.</p> <p>(3) Check for operation of film dryer. Material processed in water alone may still be slightly tacky or damp when exiting the processor.</p> <p>k. Conduct the “Final Cleaning Before Operating” procedure.</p> <p>Daily Start Up</p> <p>a. Conduct “Processor ON, Fill Wash Tank” procedure as directed by manufacturer's literature.</p> <p>CAUTION: ALWAYS INSPECT TO SEE THAT ALL DRAIN TUBES ARE PROPERLY POSITIONED AND DRAINING CORRECTLY. ALL TUBES MUST BE ROUTED IN A CONTINUOUSLY DOWNWARD DIRECTION, WITHOUT DIPS OR LOOPS THAT CAN CAUSE AIRLOCKS.</p> <p>CAUTION: A KINK OR TWIST IN A DRAIN TUBE CAN CAUSE A SERIOUS CHEMICAL OR WATER SPILL IN THE PROCESSOR.</p> <p>b. Conduct the “Check Developer and Fixer Levels” procedure as directed by manufacturer's literature.</p>	<p>Rollers not moving smoothly, recirculation pumps are not operating, leakage to system, replenishment pumps not operating on demand, film feed system not operating, and/or developer temperature not correct.</p> <p>The “WAIT” lamp does not stay on continuously, audible beeper does not sound, or processor does not stay on for approximately 4 minutes after the film feed switch is released.</p> <p>The material does not feed though straight, it drifts, skews or wrinkles.</p> <p>The dryer is not operating.</p>

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4	D	<p>c. Conduct the "Check Drive" procedure as directed by manufacturer's literature.</p> <p>d. Read or be familiar with the "Processing Film/Daylight Loader Operation" section in the manufacturer's literature.</p> <p>e. Conduct the "Shutdown and Daily Cleaning" procedure as directed by manufacturer's literature.</p> <p>(1) Drain wash tank</p> <p>(2) Clean top cover, guides and rollers</p> <p>(3) Wipe off processor</p> <p>Quality Control</p> <p>a. Developer activity can be monitored by use of pre-exposed control strips or by carefully monitoring the production work.</p> <p>b. Monitor fixer solution for film problems.</p> <p>(1) Exhausted fixer will usually result in dark streaks in the film's emulsion that may appear immediately after processing or may not appear until hours or even days after processing.</p> <p>(2) Exhausted fixer can also contribute to transport problems such as jams and will frequently prevent proper drying from taking place, resulting in sticky film surfaces.</p> <p>NOTE: The general quality of the fixer can be determined by monitoring the pH of the chemistry. When pH is too high, films may jam in the wash tank and the dryer.</p> <p>c. Read and/or be familiar with the "Replenishment" section in the manufacturer's literature.</p>	
5	B	<p>Maintenance Program</p> <p>a. Perform daily maintenance as directed by the manufacturer's literature.</p> <p>(1) Clean as directed by the manufacturer's literature.</p> <p>(a) Developer rollers</p> <p>(b) Top covers, side panels</p> <p>(c) Feed tray, receiving bin</p>	

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		<p>(2) Check as directed by the manufacturer's literature.</p> <p>(a) Chemical levels (b) Replenisher levels</p> <p>b. Clean as directed by the manufacturer's literature</p> <p>(1) Developer rack (2) Fixer rack (3) Wash rack (4) Wash tank (5) Tank exteriors</p> <p>M c. Perform monthly maintenance as directed by the manufacturer's literature.</p> <p>NOTE: The monthly maintenance schedule should be performed before disassembly for transport or storage.</p> <p>(1) Clean as directed by the manufacturer's literature:</p> <p>(a) Developer tank, circulation and replenishment system. (b) Fixer tank, circulation and replenishment system. (c) Wash tank, drain and overflow system.</p> <p>(2) Check as directed by the manufacturer's literature:</p> <p>(a) Hose clamps and plumbing. (b) Rack bearings. (c) Lubrication points.</p> <p>AN d. Yearly or after long-term storage should be as directed by the manufacturer's literature.</p> <p>NOTE: Read and/or be familiar with the "Special Maintenance Notes" and "Information for Long Term Storage and Inspection" sections in the manufacturer's literature.</p> <p>(1) Clean developer and fixer circulation pumps.</p> <p>(2) Check:</p> <p>(a) Drive belt. (b) Drive motor brushes. (c) Lubrication Points</p>	